

In the Abstract:

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--The invention is directed to devices and methods that allow for simultaneous multiple biochip analysis. The method of analyzing the plurality of biochips includes inserting a first biochip into a first station of an analysis device, inserting a second biochip into a second station of the analysis device, wherein each of the first and second biochips include a substrate, the substrates including an array of detection electrodes, each electrode including a different capture binding ligand, a different target analyte, and a label, and a plurality of electrical contacts, detecting current as an indication of the presence of the labels on the first biochip, and detecting current as an indication of the presence of the labels on the first second biochip. The devices and method may be used with multiple cartridges comprising biochips comprising arrays, such as nucleic acid arrays, and allow for high throughput analysis of samples. --